USER MANUAL

LM-THF104

HDMI Fiber Optic Transmission

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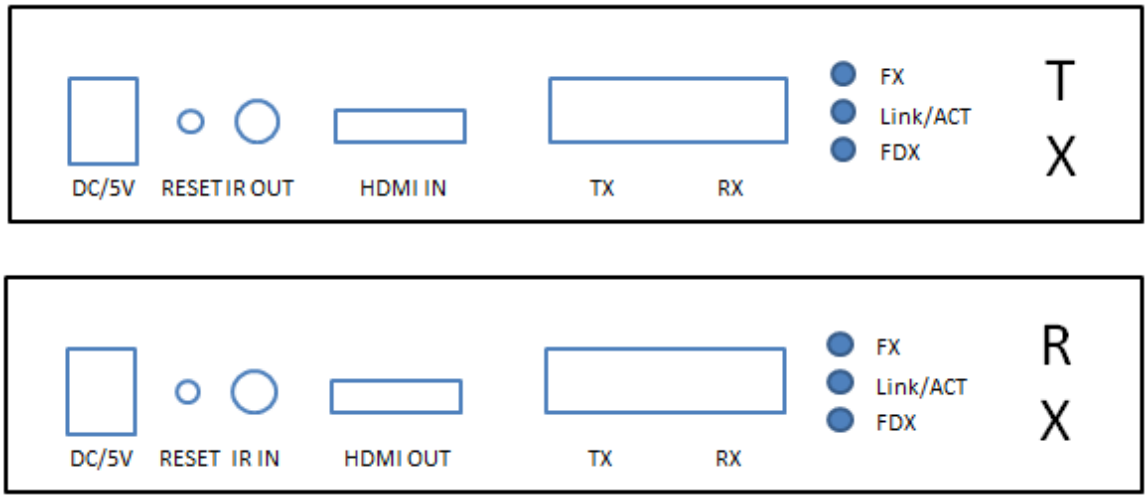
1.0 Introduction

LM-THF104 HDMI Fiber Optic Extender Transmission is a perfect solution for transmitting HDMI audio and video through the fiber, the set of device includes a sender of THF104T and a receiver of THF104R. Our products transmit the HD video over optical fiber, which making the images clearer as well as the transmission more stable. At the same time, the product has the built-in IR remote control function.

2.0 Panel Description

2.1 Front Panel



	HDMI TX	HDMI RX
HDMI PORT	Video Input	Video Output
IR PORT	IR Input	IR Output
RJ45	Network Data Transmission	
Fiber Port SC	Optic-fiber Data Transmission	
RESET KEY	Hold down the key for 8 seconds after power on, the model will restore default settings	

2.2 Indicator led.

Indicator led	Status	
FX	Light On	The transmission rate is correct
	Light Off	The transmission rate is not correct
Link act	Light On	Fiber Link up
	Flash	Packets of data are transmitting in the indicating port

FDX	Light On	In the State of full-duplex
	Light Off	In the State of half-duplex

3.0 Function Specification

1) HDMI 1.3/HDCP1.1 & 1.2

2) Both Optic-fiber transmission and Ethernet Transmission

3) Support point-to-point mode, one point-to-many mode and cascaded transmission mode.

4) built-in IR remote control function, you can control the set-top box at the receiving site using the IR remote control.

5) Pure hardware design, just plug and play, no need to install extra software.

Video Resolution	640X480 @ 60fps 800X600 @ 60fps
	1024X600 @ 60fps 1024X768 @ 60fps
	1152X864 @ 60fps 1280X600 @ 60fps
	1280X720@ 60fps 1280X768@ 60fps
	1280X800@ 60fps 1280X960@ 60fps

	1280X1024@ 60fps 1440X1050@ 60fps
	1440x900 @ 60fps 1600x900 @ 60fps
	1660x1200 @ 60fps 1680x1050 @ 60fps
	1920x1080 @ 60fps 1920 x1200 @ 60fps
Audio	32kHz, 44.1kHz and 48kHz
Infrared Support	38KHz; NEC code
HDMI Version	HDMI 1.3
HDCP Version	HDCP 1.2
Power input	AC input: 100V - 240V (50 - 60Hz)
Max Power Consumption	THF104T: 5W THF104R: 5W
Size (L-W-H)	210×140×30 mm
Net Weight	785g*2pcs
Operating Temperature/Humidity	0℃ - 70℃ / 10% - 80%RH(no condensation)
Storage Temperature/Humidity	-10℃ - 80℃/ 5% -90% RH(no condensation)

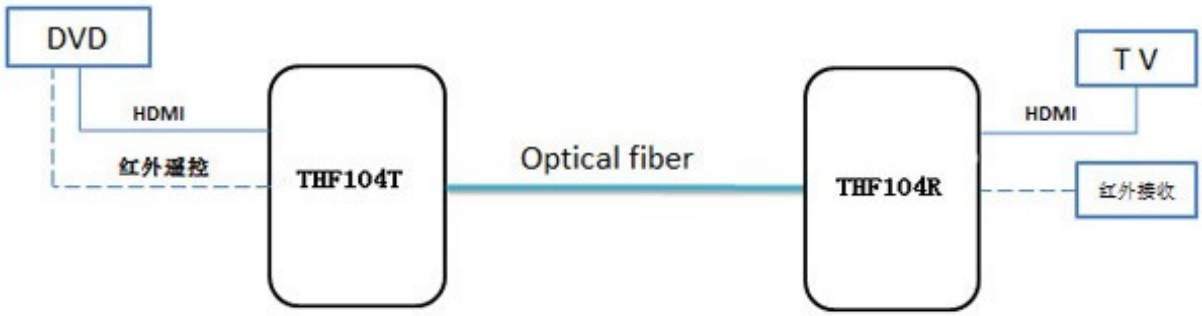
Fiber Parameter

Product Model	Max Distance	Fiber type	Optical Interface	Wave Length	Optical Power	Receiving Sensitivity	Link Budget
THF104-S20	10-20KM	single mode	SC	1310nm	-11~-3dBm	-36dBm	-25dBm
				1510nm	-11~-3dBm	-36dBm	-25dBm

4.0 Connection and operation

1. Please connect the HDMI signal source to the THF104T.
2. Connect THF104R to the HD displayer.
3. Between THF104T and THF104R (SC port-to-SC port) use optical fiber to connect.
4. IR remote control function, connect the IR receiver to the HDMI TX and connect the IR transmitter to the HDMI RX.
5. Power on the device, POWER light on, then it will do the self-checking job with the other indictors blinking automatically. When the Link light flash, the device starts up.

Application diagram



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